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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/884,663

06/19/2001

Rangaprasad Govindarajan

27066.0109

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7590

11/05/2004

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EXAMINER

JAIN, RAJ K

ART UNIT

PAPER NUMBER

2664

DATE MAILED: 11/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/884,663

Applicant(s)

GOVINDARAJAN ET AL.

Examiner

Raj Jain

Art Unit

2664

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 June 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 June 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 1.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-21 rejected under 35 U.S.C. 102(e) as being anticipated by Kullander et al (WO 00/21231).

Regarding claims 1, 8 and 15, Kullander discloses a wireless-wire line system for a wireless content switch (320) Fig 3 for transmitting data packets, said wireless content switch comprising:

- an upstream port for receiving one or more data packets (Fig 3, upstream port is from mobile 305 to wireless network 310 to buffering unit 320 and than the network at 325, page 13 lines 5-20, page 14 lines 2-14);

- a downstream port for transmitting the one or more data packets to a mobile station (Fig 3, downstream port constituting 325 to 305 via the buffering unit 320)

- memory storing the one or more data packets responsive receiving the data packets and for retrieving the one or more data packets for retransmission (Figs 1 & 3, 320 stores the data packet and provides status information via acknowledgments for packets received successfully and retransmission of lost packets, see also claim 1).

Regarding claim(s) 2, 9 and 16, Kullander discloses a processing unit for executing a plurality of instructions and wherein the memory stores the plurality executable instructions comprising: determining whether one packets are lost in a wireless network (see Figs 1 & 5 and page 19 line 31- page 20 line 31, executable instructions are inherent within the subject system as data communications is performed between computers see also page 1 lines 1-7).

Regarding claim(s) 3, 10 and 17, Kullander discloses receiving plurality of acknowledgments wherein each acknowledgments comprises a particular data packet number; examining the acknowledgments to determine whether two or more acknowledgments comprise same data packet number (see Fig 1, data is transmitted with different data numbers i.e. Dpn where n is data packet number, and acknowledgments are sent back as ACKx where x is acknowledgement number).

Regarding claim(s) 4, 11 and 18, Kullander discloses retransmitting packets wherein at least two or more acks comprise same data packet number (see page 5 line 15 – page 6 line 9).

Regarding claim(s) 5, 12 and 19, Kullander discloses determining whether one or more data packets are lost in a wireline network (see claim 3).

Regarding claim(s) 6, 13 and 20, Kullander discloses examining packet number associated with one or more data packets (see Fig 1, claim 3, page 2 lines 5-17).

Regarding claim(s) 7, 14 and 21, Kullander discloses comparing the packet number associated with the one or more of the data packets with a second packet number and transmitting acknowledgment to a content server wherein the packet

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number associated with the one or more the data packets with second packet number exceeds predetermined threshold (see page 10 lines 1-25, packets are determined to be lost or erroneously received and than determined if retransmission is required or not, threshold is based on a expiry of a retransmission timer).

Conclusion

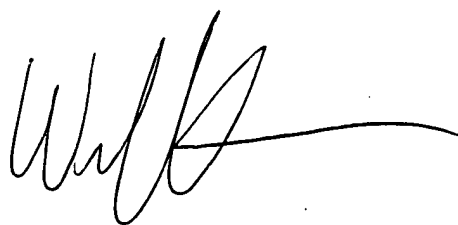
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raj Jain whose telephone number is 571-272-3145.

The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4700.

RJ
October 26, 2004

A handwritten signature in black ink, appearing to be 'W. Chin', with a long horizontal line extending to the right.